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Lubricants, industrial oils and related products (class L) — Classification —

Part 11 : Family P (Pneumatic tools)

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Partie 11 : Famille P (Outils pneumatiques)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 6743-11 was prepared by Technical Committee ISO/TC 28, *Petroleum products and lubricants*.

ISO 6743 consists of the following parts, under the general title *Lubricants, industrial oils and related products (class L)*. <http://www.iso.org/iso/catalog/standards/sist/e7e66651-121b-475a-958e-311910176147/iso-6743-11-1990>

- Part 0: General
- Part 1: Family A (Total loss systems)
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- Part 13: Family G (Slideways)

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Lubricants, industrial oils and related products (class L) — Classification —

Part 11 : Family P (Pneumatic tools)

1 Scope

This part of ISO 6743 establishes the detailed classification of lubricants of family P for pneumatic tools and machines driven by compressed air. All the lubricants listed belong to class L (Lubricants, industrial oils and related products).

This classification system covers only lubricants which are in contact with the compressed air. Pneumatic tools or machinery may have other points of lubrication (e.g. internal bearings, gears, etc.) which are not covered by this part of ISO 6743.

This classification applies only for normal operational and environmental conditions. If abnormal conditions are encountered, e.g. very high or very low temperatures, the manufacturer of the equipment and/or the supplier of the lubricant should be consulted.

This part of ISO 6743 should be read in conjunction with ISO 6743-0.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 6743. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 6743 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 3448 : 1975, *Industrial liquid lubricants — ISO viscosity classification.*

ISO 6743-0 : 1981, *Lubricants, industrial oils and related products (class L) — Classification — Part 0: General.*

3 Explanation of symbols used

3.1 The detailed classification of family P has been established by defining the categories of products required for the main applications of this family.

3.2 Each category is designated by a symbol consisting of a group of letters, which together constitute a code.

NOTE — The first letter of the category (P) identifies the product family, i.e. lubricants for pneumatic tools. The following letters taken separately have no significance of their own.

The designation of each category can be supplemented by the addition of viscosity grades according to ISO 3448.

3.3 In the present classification system, products are designated in a uniform manner. For example, a particular product may be designated in a complete form, i.e. ISO-L-PBB, or in an abbreviated form, i.e. L-PBB.

4 Detailed classification

The detailed classification is shown in table 1.

Table 1 – Classification of lubricants for pneumatic tools

Code letter	General application	Particular application	More specific application	Product type	Symbol ISO-L	Typical application
P	Pneumatic tools and machinery	Percussive pneumatic tools	Automatic or manual lubrication	Non-inhibited straight mineral oil	PAA	Tools operating at low load, and without condensate present in the air
				Mineral oil with anti-corrosion and anti-wear properties	PAB	Tools operating at high load with condensate present in the air
				Mineral oil with anti-corrosion, anti-wear, emulsifying and foam-inhibiting properties	PAC	Tools subject to extended service cycles, operating under moderate to severe load conditions and with condensate present in the air
				Synthetic base fluid lubricants	PAD	Especially for open-air operations at sub-zero temperatures
			Greasing	Semi-fluid grease	PAE	For special operating conditions, e.g. reduced oil-mist exhaust ¹⁾
		Rotary pneumatic tools and air-driven machines	Automatic or manual lubrication	Non-inhibited straight mineral oil	PBA	Tools operating under low load conditions and without condensate present in the air
				Mineral oil with anti-corrosion properties	PBB	Tools operating under low to moderate load conditions and with condensate present in the air
				Mineral oil with anti-corrosion, anti-wear, emulsifying and foam-inhibiting properties	PBC	Tools subject to extended service cycles, operating under moderate to severe load conditions and with condensate present in the air
				Synthetic base fluid lubricants	PBD	For special applications

1) An L-XBIB 000 type product in accordance with ISO 6743-9 : 1986 may also be suitable.

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Descriptors : petroleum products, lubricants, lubricating oils, classification, pneumatic equipment.

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